

101547447

Mm-NP061350	MELWPGAWIA	LLLLLLLLLES	TLWFCSSSAK	YEFKMAFYNG	WILFLAILAI	50
Ce-T06E8.1	...MENFWSI	VVFFLLSIEF	ILYNISTVCH	YVMRISEFYF	TILLHGMEVC	
Ce-F59F4.4	.....MTF	LAILFVIAVL	LLLAQLPVIG	FYIRAVYFGM	CLTIGGFLGG	
	51					100
Mm-NP061350	PVCAVRGRNV	ENMKILRLLL	LHAKYLYGIR	VEVRGAHHFP	PTQPYVVVSN	
Ce-T06E8.1	VTMIPSWLNG	KGADYVFHSF	FYWCKWTCVH	TTVYGYEKTQ	VEGPAVVTCN	
Ce-F59F4.4	LASIPFGKSP	NNHFRMFKIF	QAMTWPMGVR	FELRNSEILH	DKKPYVETIAN	
	101					150
Mm-NP061350	HQSSLDLILGM	MEVLDPDRCPV	IAKRELLWAG	SAGLACWLAG	TIIFIDRKRTG	
Ce-T06E8.1	HQSSLDLILSM	ASIWPKNCVV	MMKRILAYVP	FFNLGAYFSN	TIIFIDRYNRE	
Ce-F59F4.4	HQSALDVILGM	SFAWPVDCVV	MLKSSLKXLP	GFNLCAYLCD	SVYINRFSKE	
	151					200
Mm-NP061350	DAISVMSEVA	QTLLTQDVRV	WVFPEGTRNH	NGSMIPFKRG	AFHLAVQAQV	
Ce-T06E8.1	RAMASVDYCA	SEMKNRNLKL	WVFPEGTRNR	EGGFIPFKKG	AFNLAVRAQI	
Ce-F59F4.4	KALKTYDRTL	HEIVTKRKRV	WLYPEGTRNA	EPELLPFKKG	AFILAKQAKI	
	201					250
Mm-NP061350	PIIPIVMSSY	QDFYSKKERR	FTSPGRCQVR	VLPPVSTIEGL	TPDDVPALAD	
Ce-T06E8.1	PIIPVVFSDY	RDFYSKPGRY	FKNDGEVVIR	VLDAIPTKGL	TLDDVSELSL	
Ce-F59F4.4	PIVPCVFSSH	KFFYSHAER	LTS.GNCIRD	ILPEVDS..	KFDSIDDLA	
	251			285		
Mm-NP061350	SVRHSMLTIF	REISTDGLGG	GDCLKKPGGA	GEARL		
Ce-T06E8.1	MCRDVMLAAY	KEVTLEAQQR	NATRRGETKD	GKKSE		
Ce-F59F4.4	HCRKIMOahr	EKLDAEAANL	NI.....	.....		

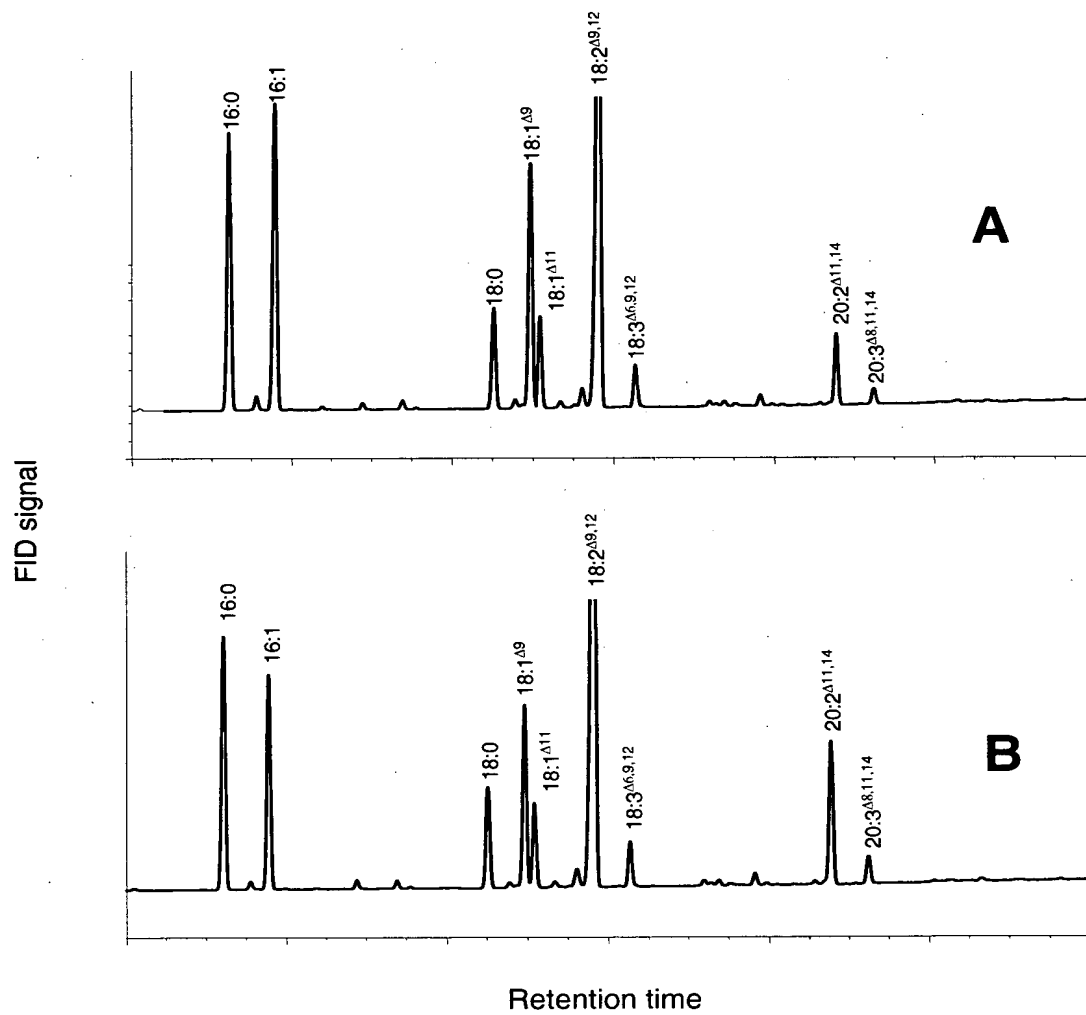
Figure 2: Fatty acid profiles of transgenic C13ABYS86 *S. cerevisiae* cells

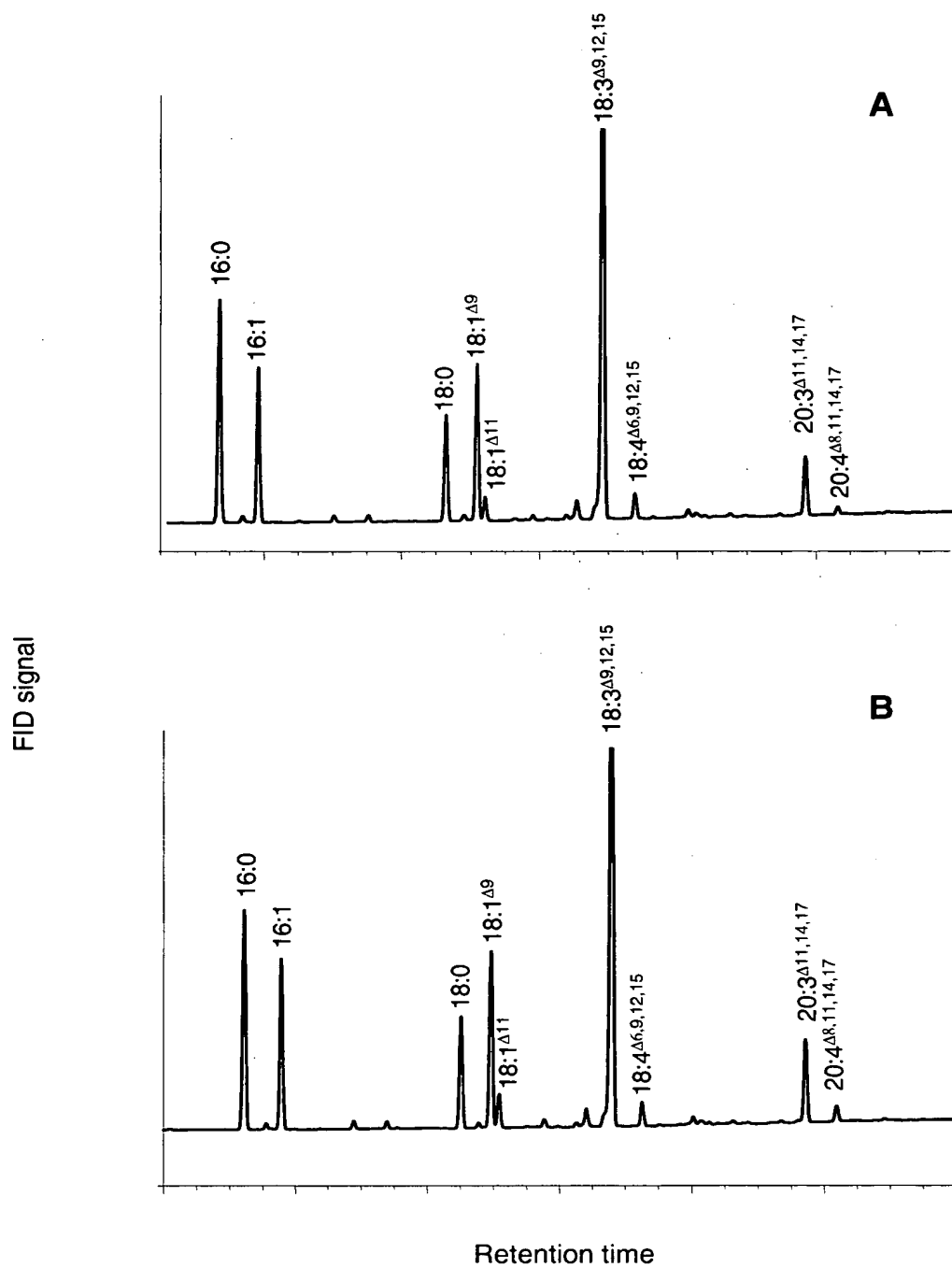
Figure 3: Fatty acid profiles of transgenic C13ABYS86 *S. cerevisiae* cells

Figure 4: Elongation of exogenously applied  $18:2^{\Delta 9,12}$  and  $18:3^{\Delta 9,12,15}$ , following their endogenous  $\Delta 6$ -desaturation (data of figs. 2 and 3).

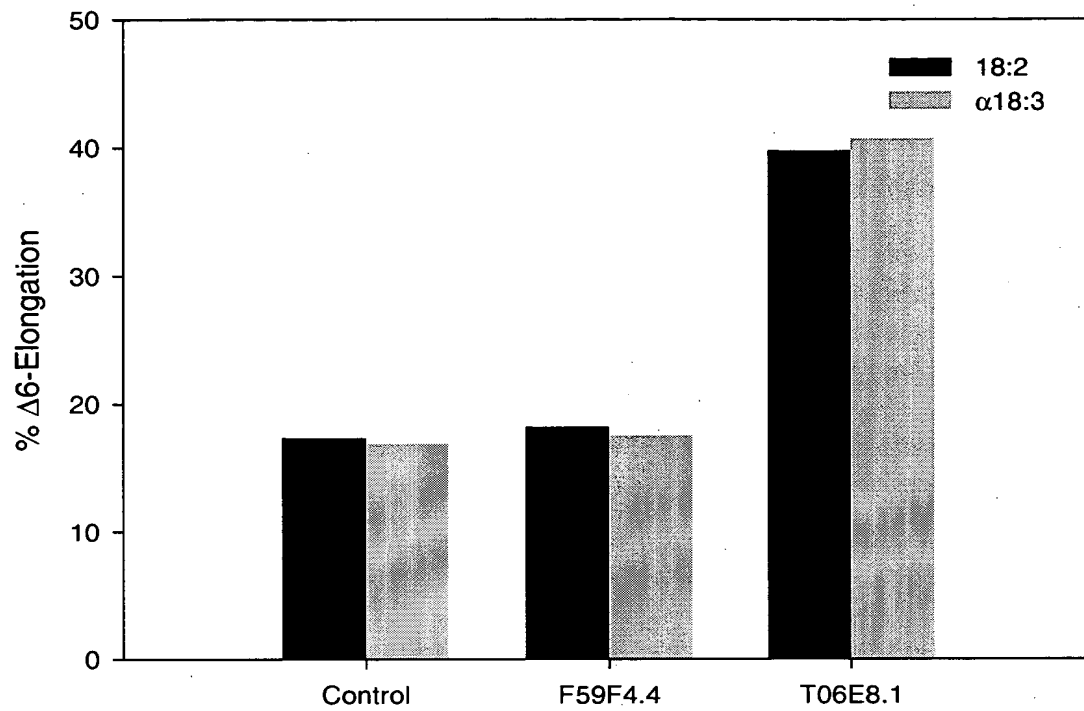


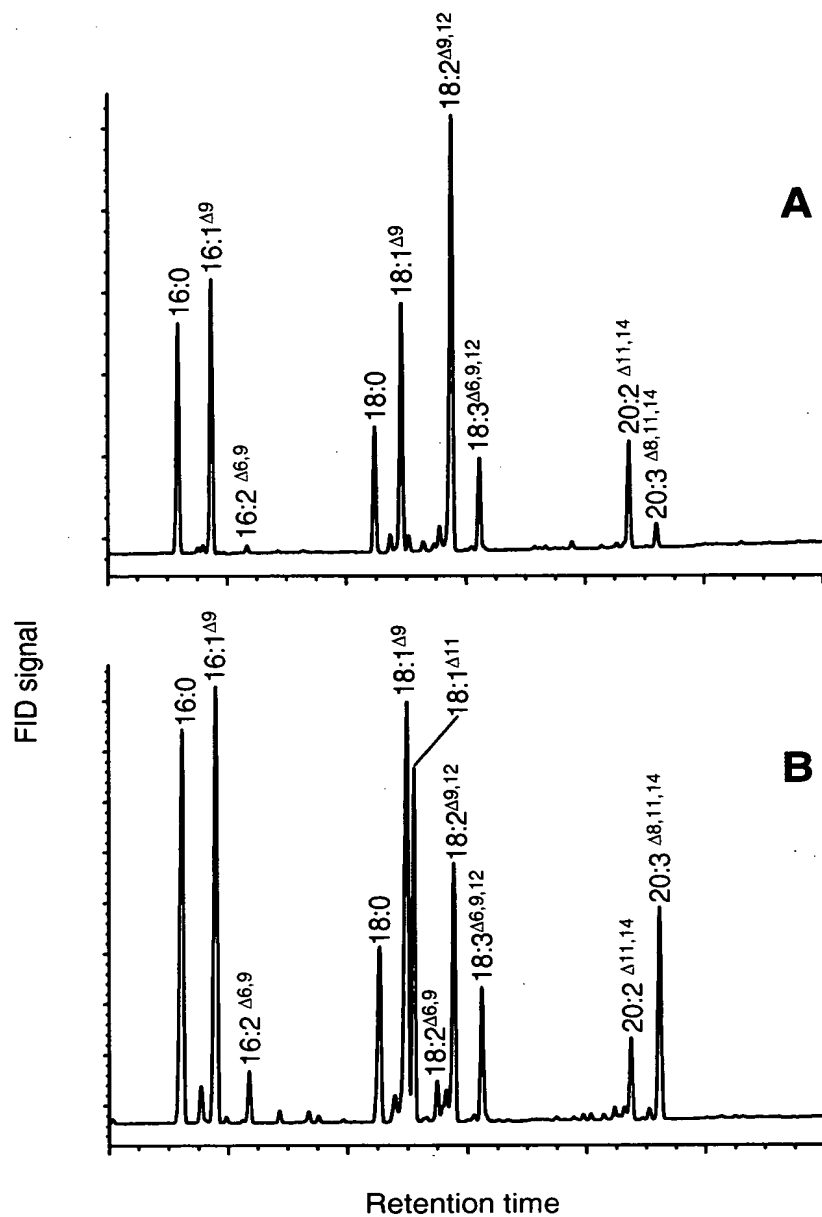
Figure 5: Fatty acid profiles of transgenic INVSc1 *S. cerevisiae* cells

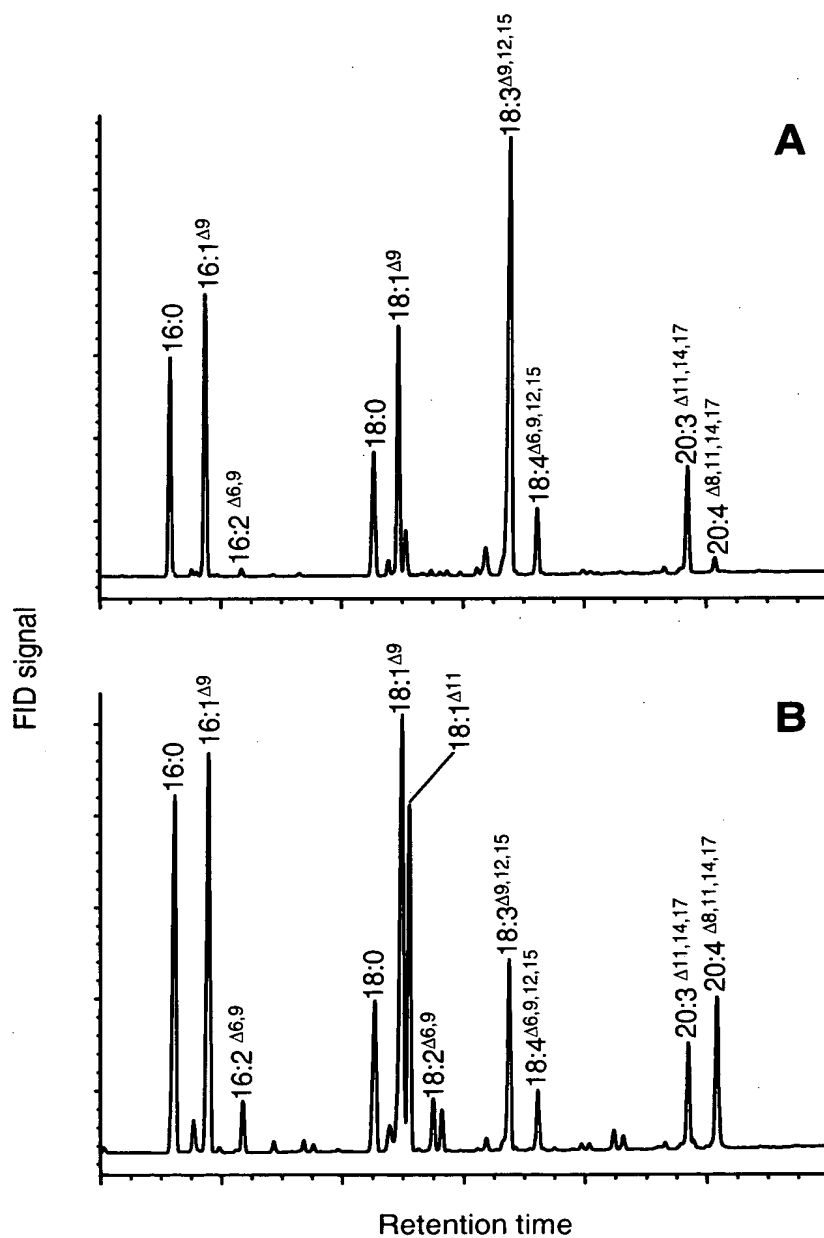
Figure 6: Fatty acid profiles of transgenic INVSc1 *S. cerevisiae* cells

Figure 7: Acyl-CoA composition of transgenic INVSc1 yeasts transformed with the vectors pESCLEu PpD6Pse1/pYes2 (A) or pESCLEu-PpD6-Pse1/pYes2-T06E8.1 (B).

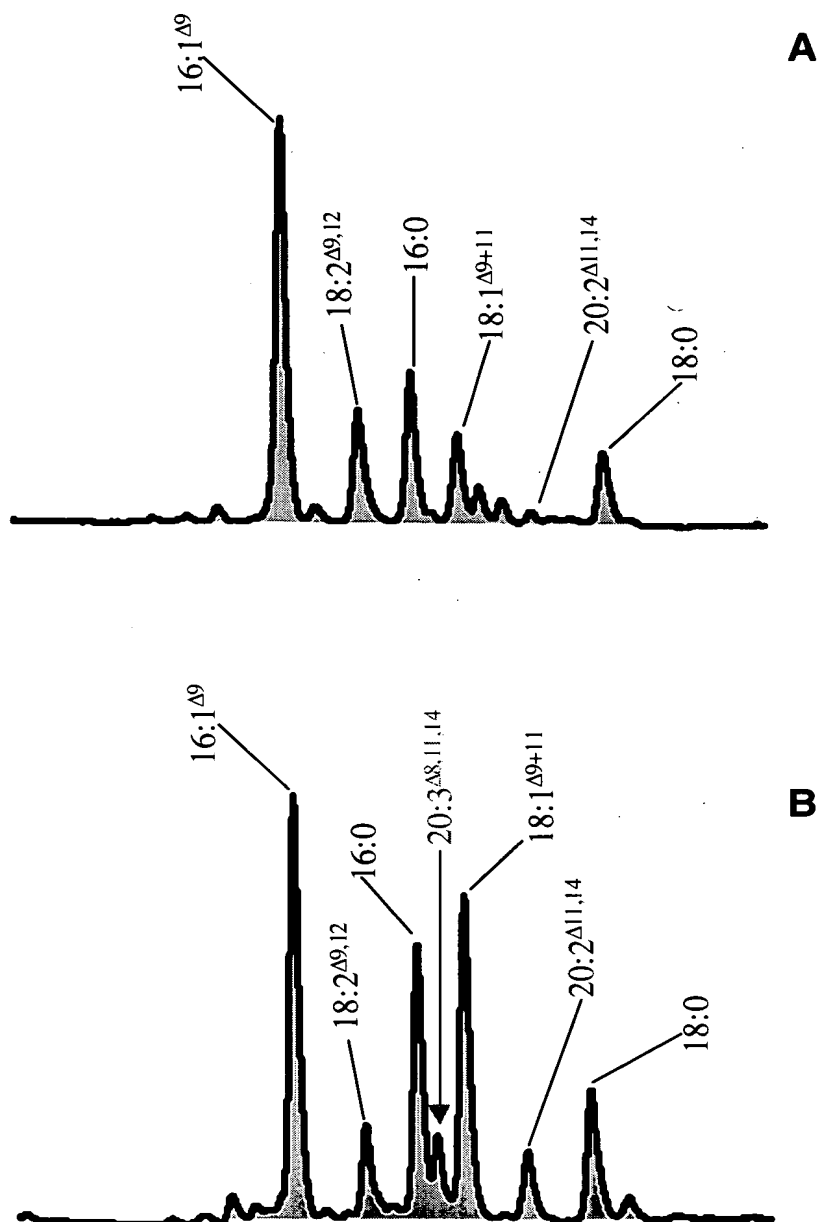


Figure 8: Vector map of pSUN3CeLPLAT

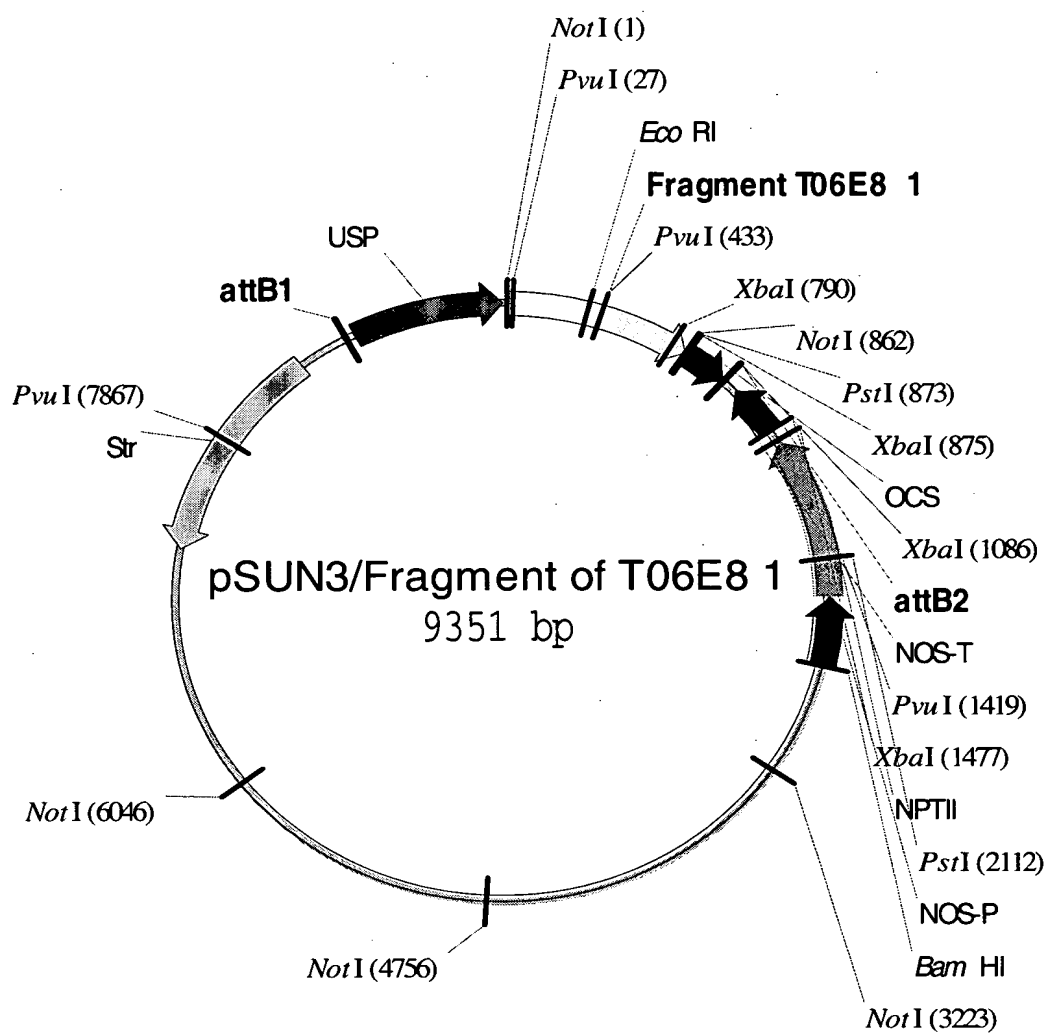




Figure 9A: Vector map of pGPTV LeB4-700 + T06E8.1

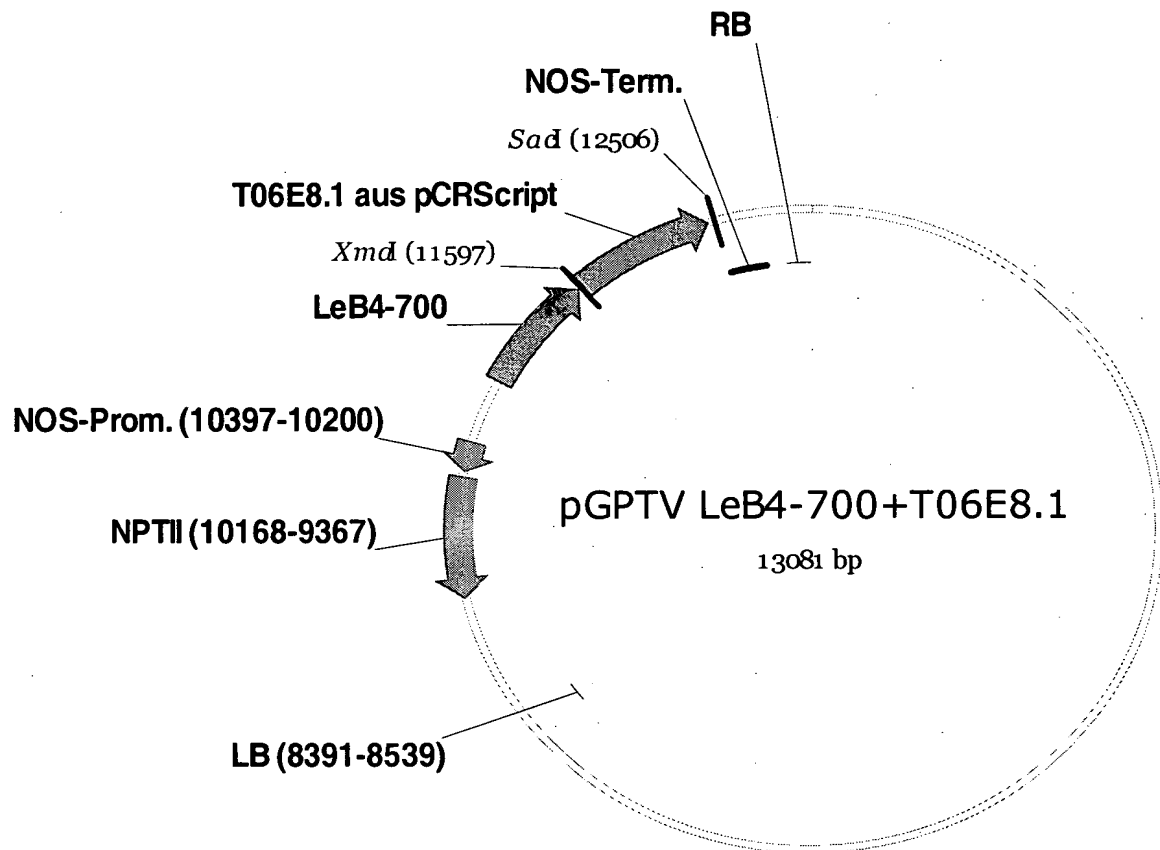


Figure 9B: Vector map of pGPTV USP/OCS-1,2,3 PSE1(Pp)+D6-Des(Pt)+2AT (T06E8-1)

pGPTV/USP/OCS-1,2,3 PSE1(Pp) D6-Des(Pt)-2 AT(T06E8-1)

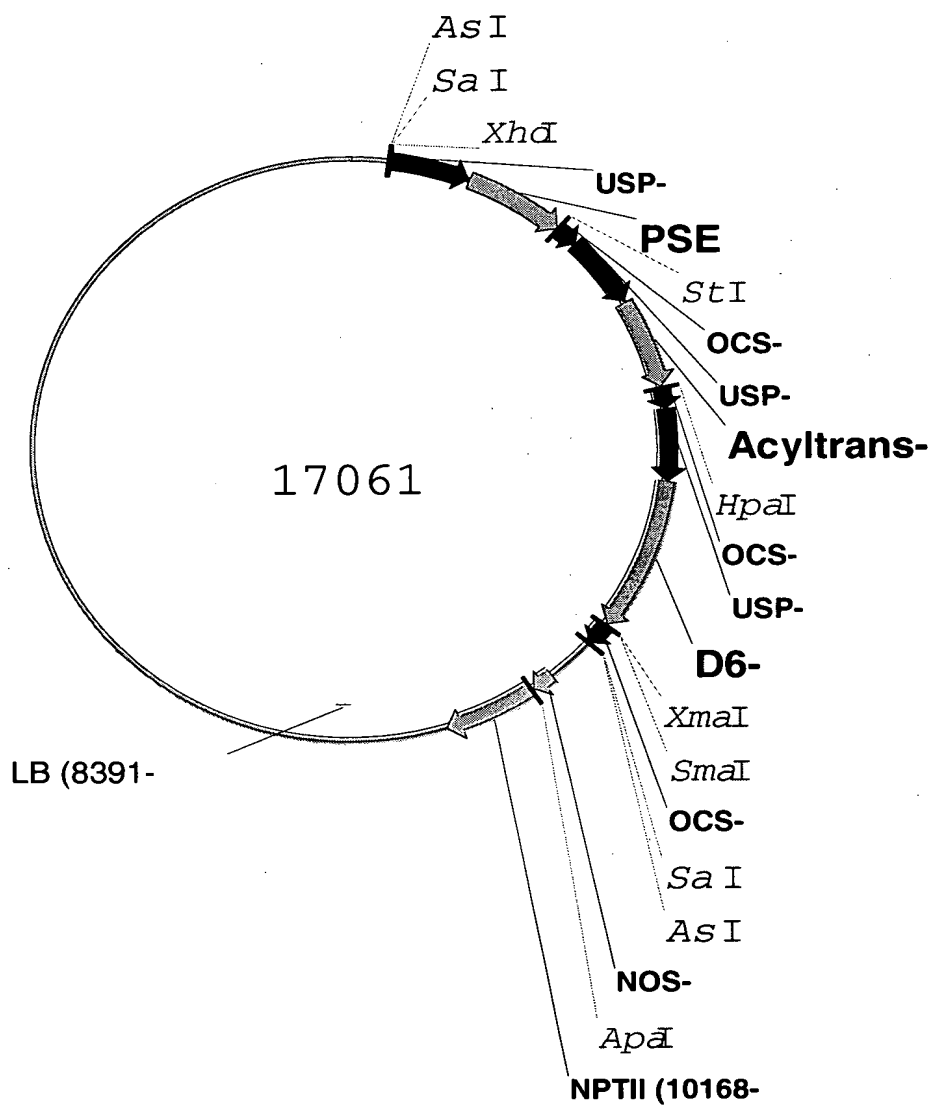


Figure 10A: Biosynthetic pathway of LCPUFAs

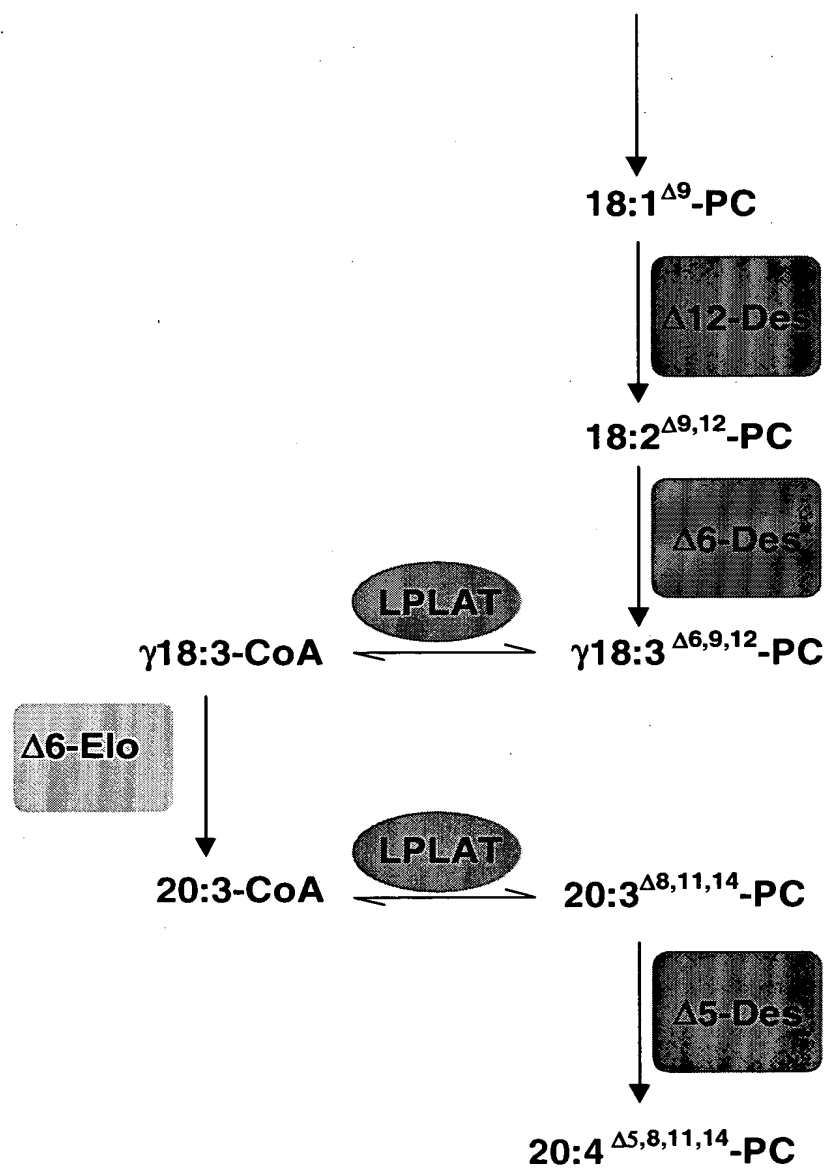


Figure 10B: Biosynthetic pathway of LCPUFAs

